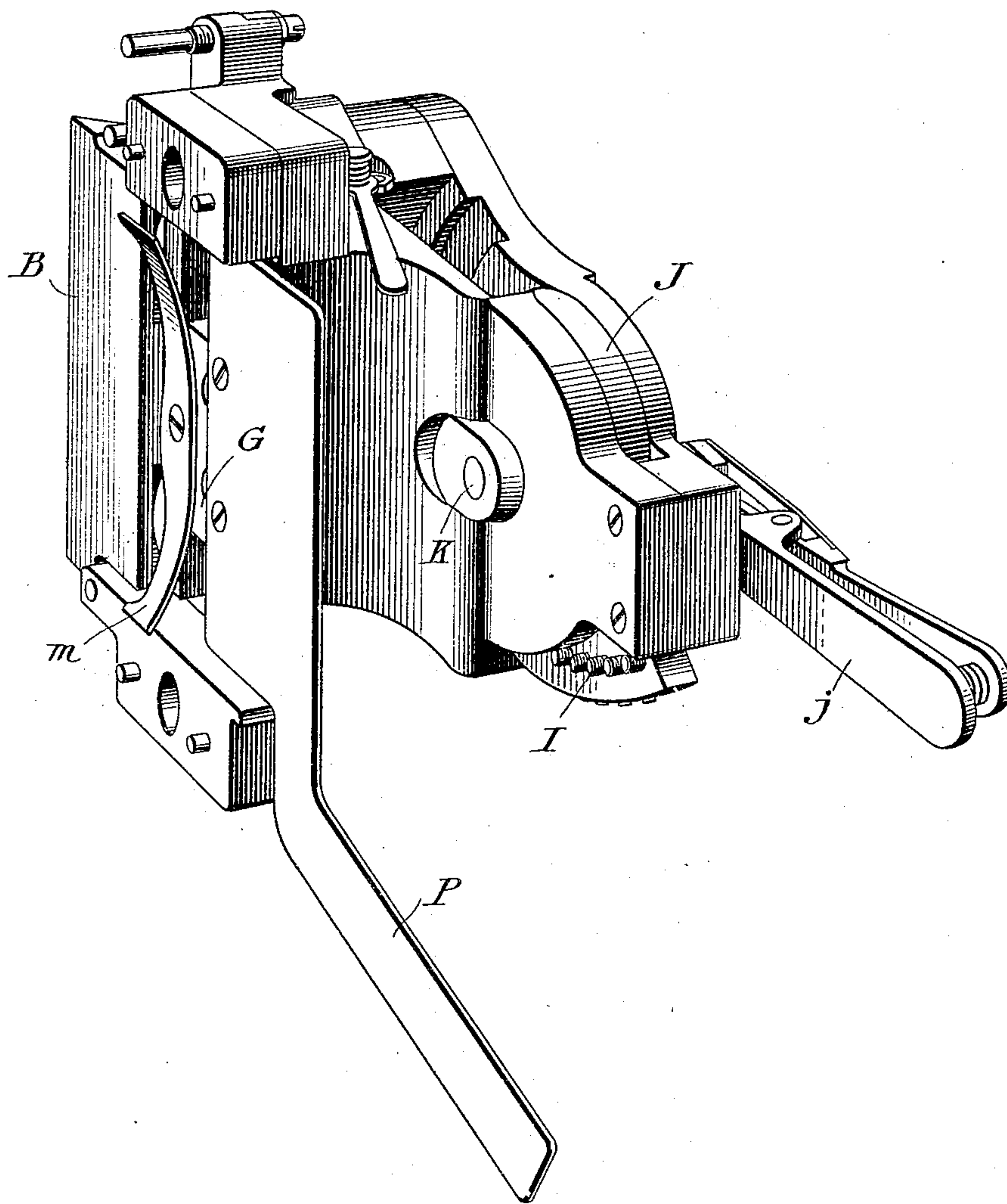


955,681.

Fig. 1.



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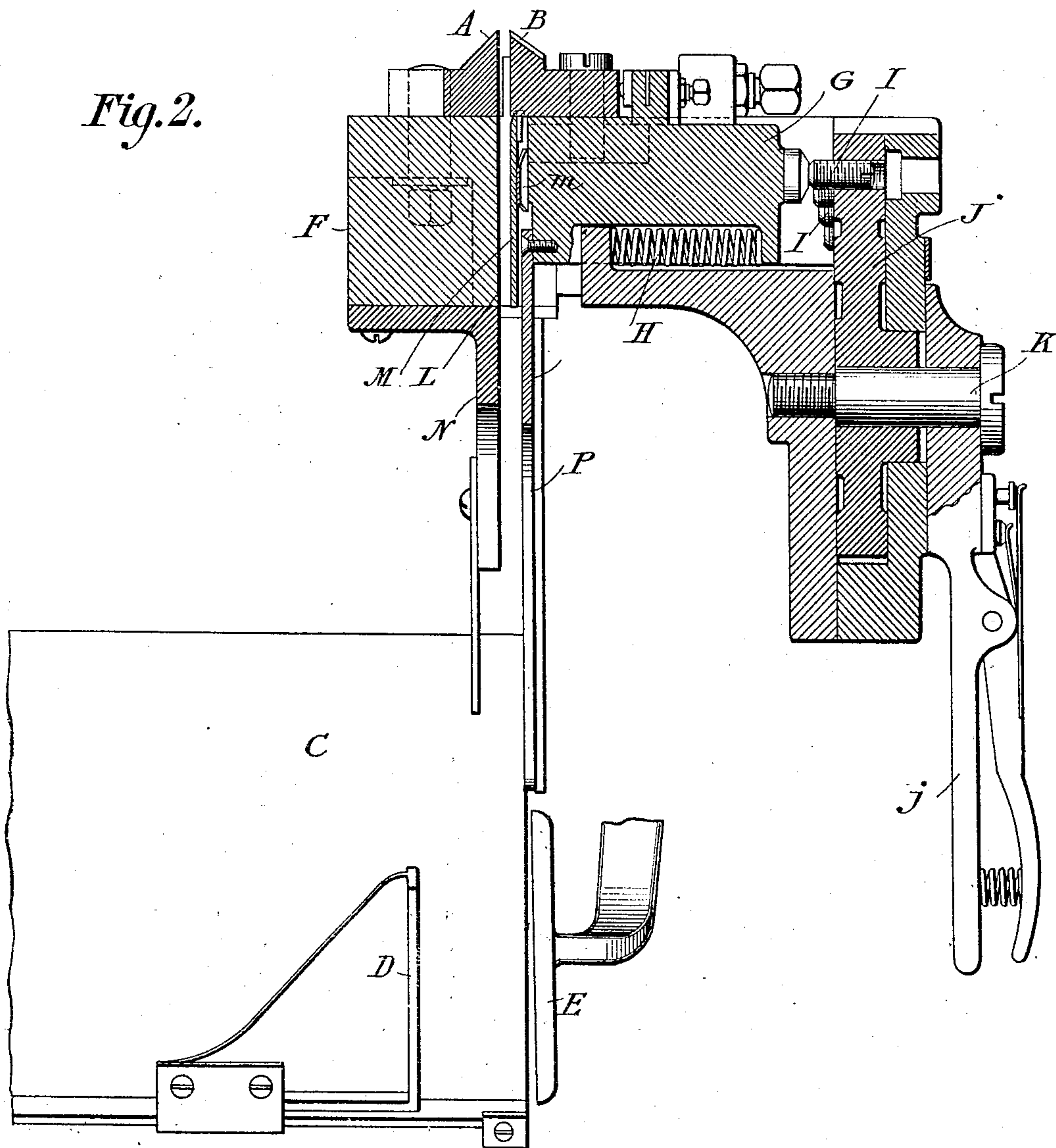
H. PLAUT.
 LINOTYPE MACHINE.
 APPLICATION FILED FEB. 25, 1910.

955,681.

Patented Apr. 19, 1910.

2 SHEETS—SHEET 2.

Fig. 2.



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UNITED STATES PATENT OFFICE.

HARRY PLAUT, OF BROOKLYN, NEW YORK, ASSIGNOR TO MERGENTHALER LINOTYPE COMPANY, A CORPORATION OF NEW YORK.

LINOTYPE-MACHINE.

955,681.

Specification of Letters Patent.

Patented Apr. 19, 1910.

Application filed February 25, 1910. Serial No. 545,831.

To all whom it may concern:

Be it known that I, HARRY PLAUT, of borough of Brooklyn, county of Kings, and State of New York, have invented a new and useful Improvement in Linotype-Machines, of which the following is a specification.

My invention has reference to line casting machines, wherein printing bars or slugs having type characters on the edge are formed in a slotted mold from which they are ejected between two parallel trimming knives into a receiving galley, as illustrated, for example, in Letters Patent of the United States No. 436,532.

The invention has specific reference to machines in which one knife is adjustable toward and from the other in order to trim the slugs to one thickness or another as demanded, and in which the slugs are delivered successively from the knives to an inclined galley, as represented in Letters Patent of the United States No. 884,022 to Kennedy. In these machines the slugs received upon the galley are pushed one after another to the left, the accumulated series of slugs being moved forward in the galley each time that a slug is added to the end. As heretofore constructed the mechanism did not continue to guide the slugs as they passed endwise into the galley, and it occasionally happened that the end slug would fall backward out of position and permit the succeeding slug to enter before it, thus causing transposition of the slugs.

The present invention is designed to overcome this difficulty, and it consists broadly in combining with the adjustable knife a slug guiding member which extends forward over the galley and which is movable simultaneously with the knife, so that the passage for the slug is automatically varied in width according to the thickness of the slug, and the slugs consequently guided properly to the galley.

Referring to the drawings: Figure 1 is a perspective view of the movable knife and attendant parts, commonly known as the knife block, of the commercial Mergenthaler machine with my improvement applied thereto. Fig. 2 is a horizontal section through the two trimming knives and adjacent parts in their operative relation to the galley.

Referring to the drawings, A, B represent

the upright, parallel knives between which the slugs are delivered from the mold in the usual manner.

C is the galley to which the slugs are delivered successively, the lower ends of the upright slugs being thrown forward so that they slide downward in an endwise direction upon the inclined galley, on which they are assembled side by side against a yielding slide D by means of a reciprocating pusher E in the manner fully explained in the Kennedy patent.

The knife A is bolted rigidly to the main frame F of the machine, while the knife B is bolted firmly but adjustably to a horizontal slide G. This slide is urged constantly to the right by a spring H, which tends to separate the knives and is moved forward step by step to approximate the knives by means of screws or studs I carried by a sector plate J formed with a handle j, and turning on a horizontal, fixed pivot K. The screws I project different distances from the sector plate, so that as the latter is turned about its pivot the different screws coming successively into action against the slide G will push it to the left a greater or less distance, thus varying the distance between the two knives A, B, so that the outgoing slugs will be of greater or less thickness as demanded. The outgoing slugs are guided beyond the knives between a vertical surface L on the frame and a plate M engaged at its forward edge with the knife B, and supported by a yielding spring m. After passing beyond the plate M the slugs are guided on the left-hand side by a plate N bolted to the frame. The parts so far as described are of the ordinary construction, and are not claimed as part of the present invention.

In applying my improvement I provide a thin vertical plate or arm P and secure the same firmly to the left side of the knife carrying slide G, so that the outgoing slugs are guided between this arm P and the arm N as they pass upon the galley. The arm P is extended forward above the upper surface of the galley for a sufficient distance to guide each of the outgoing slugs directly to its place on the galley at the right of the preceding slug. As the knife B is adjusted toward and from its companion the guide P is moved to correspond, and thus the passage through which the outgoing slug is guided

upon the galley is varied in width to correspond with changes in thickness in the slugs, so that each slug is guided to its proper position.

5 Having thus described my invention, what I claim and desire to secure by Letters Patent is:

10 1. In a line casting machine slug trimming knives, one of which is adjustable toward and from the other, in combination with a receiving galley and a slug guide extending from the knife to the galley and movable with the knife.

15 2. In a slug casting machine the combination of knives relatively adjustable to trim slugs of different thicknesses, a galley to receive the slugs from the knives, and intermediate guiding surfaces extending to the galley and automatically adjustable with the
20 knives to correspond with the distance between the knives.

3. In combination with a fixed knife A and stationary slug guiding surfaces beyond the same, a movable knife B and a slug guide P movable therewith. 25

4. In combination with fixed knife A and movable knife B, the inclined receiving galley C, the guide P movable with knife B, a pusher E to advance the successive slugs upon the galley, and a yielding resistant D 30 to support the slugs.

5. In a line casting machine a slug receiving galley, an adjustable slug trimming knife, and an intermediate slide extending to the galley and movable with the knife. 35

In testimony whereof I hereunto set my hand this 3rd day of February, 1910, in the presence of two attesting witnesses.

HARRY PLAUT.

Witnesses:

E. H. ALLEN,
C. C. JONES.